

419300

**FIELD INVESTIGATIONS OF
UNCONTROLLED HAZARDOUS WASTE SITES**

FIT PROJECT

**TASK REPORT TO THE
ENVIRONMENTAL PROTECTION AGENCY
CONTRACT NO. 68-01-6056**

A Preliminary Assessment of:
Route 7 Chemical Dump
Elkton, Maryland
TDD No. F3-8007-30
EPA No. MD-75

ecology and environment, inc.

International Specialists in the Environmental Sciences

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Presented by:

Ecology & Environment, Inc.
Field Investigation Team
Region III

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Section 1



POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT

 REGION III
 SITE NUMBER (to be assigned by HQ)

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

| | | | |
|---|----------------|---|-------------------------|
| A. SITE NAME Route 7 Dump | | B. STREET (or other identifier) 1.9 miles west of Route 40 | |
| C. CITY Elkton | D. STATE MD | E. ZIP CODE | F. COUNTY NAME Cecil |
| G. OWNER/OPERATOR (if known) 1. NAME A. P. Fabrizi - New Jersey Fireworks Company | | 2. TELEPHONE NUMBER 301-398-2920 | |
| H. TYPE OF OWNERSHIP <input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input checked="" type="checkbox"/> 5. PRIVATE <input type="checkbox"/> 6. UNKNOWN | | | |

I. SITE DESCRIPTION

Former quarry used for burning material from Fireworks manufacture

| | |
|--|--|
| J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.) Maryland EHA | K. DATE IDENTIFIED (mo., day, & yr.) 05/20/80 |
| L. PRINCIPAL STATE CONTACT 1. NAME Dave Healy | |
| 2. TELEPHONE NUMBER 301-383-2771 | |

II. PRELIMINARY ASSESSMENT (complete this section last)

| | |
|---|--|
| A. APPARENT SERIOUSNESS OF PROBLEM <input type="checkbox"/> 1. HIGH <input type="checkbox"/> 2. MEDIUM <input checked="" type="checkbox"/> 3. LOW <input type="checkbox"/> 4. NONE <input type="checkbox"/> 5. UNKNOWN | |
| B. RECOMMENDATION <input checked="" type="checkbox"/> 1. NO ACTION NEEDED (no hazard) EPA should monitor <input type="checkbox"/> 2. IMMEDIATE SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR: b. WILL BE PERFORMED BY: <input type="checkbox"/> 3. SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR: b. WILL BE PERFORMED BY: <input type="checkbox"/> 4. SITE INSPECTION NEEDED (low priority) | |

| | | | |
|--|--|-----------------------------------|--------------------------------------|
| C. PREPARER INFORMATION 1. NAME [REDACTED] | | 2. TELEPHONE NUMBER [REDACTED] | 3. DATE (mo., day, & yr.) 10/3/80 |
|--|--|-----------------------------------|--------------------------------------|

III. SITE INFORMATION

| | |
|--|--|
| A. SITE STATUS <input checked="" type="checkbox"/> 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.) <input type="checkbox"/> 2. INACTIVE (Those sites which no longer receive wastes.) <input type="checkbox"/> 3. OTHER (specify): (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.) | |
| B. IS GENERATOR ON SITE? <input checked="" type="checkbox"/> 1. NO <input type="checkbox"/> 2. YES (specify generator's four-digit SIC Code): | |
| C. AREA OF SITE (in acres) 1 acre | D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES 1. LATITUDE (deg., -min., -sec.) 2. LONGITUDE (deg., -min., -sec.) |
| E. ARE THERE BUILDINGS ON THE SITE? <input checked="" type="checkbox"/> 1. NO <input type="checkbox"/> 2. YES (specify): | |

IV. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

| <input checked="" type="checkbox"/> A. TRANSPORTER | <input checked="" type="checkbox"/> B. STORER | <input checked="" type="checkbox"/> C. TREATER | <input checked="" type="checkbox"/> D. DISPOSER |
|--|---|--|--|
| 1. RAIL | 1. PILE | 1. FILTRATION | 1. LANDFILL |
| 2. SHIP | 2. SURFACE IMPOUNDMENT | 2. INCINERATION | 2. LANDFARM |
| 3. BARGE | 3. DRUMS | 3. VOLUME REDUCTION | <input checked="" type="checkbox"/> 3. OPEN DUMP |
| 4. TRUCK | 4. TANK, ABOVE GROUND | 4. RECYCLING/RECOVERY | 4. SURFACE IMPOUNDMENT |
| 5. PIPELINE | 5. TANK, BELOW GROUND | 5. CHEM./PHYS. TREATMENT | 5. MIDDY DUMPING |
| 6. OTHER (specify): | 6. OTHER (specify): | 6. BIOLOGICAL TREATMENT | 6. INCINERATION |
| | | 7. WASTE OIL REPROCESSING | 7. UNDERGROUND INJECTION |
| | | 8. SOLVENT RECOVERY | 8. OTHER (specify): |
| | | <input checked="" type="checkbox"/> 9. OTHER (specify): Burning of Fireworks waste | |

E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED

Wastes from Fireworks manufacture were dumped into pit which has filled with water. Currently, wastes are burned at site and ash transported to County Landfill.

V. WASTE RELATED INFORMATION

A. WASTE TYPE

☐ 1. UNKNOWN ☐ 2. LIQUID ☒ 3. SOLID ☐ 4. SLUDGE ☐ 5. GAS

B. WASTE CHARACTERISTICS

☐ 1. UNKNOWN ☐ 2. CORROSIVE ☒ 3. IGNITABLE ☐ 4. RADIOACTIVE ☐ 5. HIGHLY VOLATILE
☐ 6. TOXIC ☐ 7. REACTIVE ☐ 8. INERT ☒ 9. FLAMMABLE

☒ 10. OTHER (specify): Explosive

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

NO

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

| a. SLUDGE | b. OIL | c. SOLVENTS | d. CHEMICALS | e. SOLIDS | f. OTHER |
|---|---|--|--|--|--|
| AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT |
| UNIT OF MEASURE | UNIT OF MEASURE | UNIT OF MEASURE | UNIT OF MEASURE | UNIT OF MEASURE | UNIT OF MEASURE |
| <input checked="" type="checkbox"/> (1) PAINT, PIGMENTS | <input checked="" type="checkbox"/> (1) OILY WASTES | <input checked="" type="checkbox"/> (1) HALOGENATED SOLVENTS | <input checked="" type="checkbox"/> (1) ACIDS | <input checked="" type="checkbox"/> (1) FLYASH | <input checked="" type="checkbox"/> (1) LABORATORY PHARMACEUT. |
| (2) METALS SLUDGES | (2) OTHER (specify): | (2) NON-HALOGENATED SOLVENTS | (2) PICKLING LIQUORS | (2) ASBESTOS | (2) HOSPITAL |
| (3) POTW | | (3) OTHER (specify): | (3) CAUSTICS | (3) MILLING/ MINE TAILINGS | (3) RADIOACTIVE |
| (4) ALUMINUM SLUDGE | | | (4) PESTICIDES | (4) FERROUS SMLTG. WASTES | (4) MUNICIPAL |
| (5) OTHER (specify): | | | (5) DYES/INKS | (5) NON-FERROUS SMLTG. WASTES | (5) OTHER (specify): |
| | | | (6) CYANIDE | (6) OTHER (specify): | |
| | | | (7) PHENOLS | | |
| | | | (8) HALOGENS | | |
| | | | (9) PCB | | |
| | | | (10) METALS | | |
| | | | <input checked="" type="checkbox"/> (11) OTHER (specify): EXPLOSIVE | | |
| | recycled paper | | | ecology and environment, inc. | |

V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hazard).

Nitrates
Sulfur Compounds
Other unknown wastes from Fireworks manufacture

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

Water filled pit is Clay lined.

VI. HAZARD DESCRIPTION

ORIGINAL

(Red)

| A. TYPE OF HAZARD | B. POTENTIAL HAZARD (mark 'X') | C. ALLEGED INCIDENT (mark 'X') | D. DATE OF INCIDENT (mo., day, yr.) | E. REMARKS |
|--|--------------------------------|--------------------------------|-------------------------------------|------------|
| 1. NO HAZARD | | | | |
| 2. HUMAN HEALTH | | | | |
| 3. NON-WORKER INJURY/EXPOSURE | | | | |
| 4. WORKER INJURY | | | | |
| 5. CONTAMINATION OF WATER SUPPLY | X | | | |
| 6. CONTAMINATION OF FOOD CHAIN | | | | |
| 7. CONTAMINATION OF GROUND WATER | X | | | |
| 8. CONTAMINATION OF SURFACE WATER | | | | |
| 9. DAMAGE TO FLORA/FAUNA | | | | |
| 10. FISH KILL | | | | |
| 11. CONTAMINATION OF AIR | | | | |
| 12. NOTICEABLE ODORS | | | | |
| 13. CONTAMINATION OF SOIL | | | | |
| 14. PROPERTY DAMAGE | | | | |
| 15. FIRE OR EXPLOSION | | | | |
| 16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS | | | | |
| 17. SEWER, STORM DRAIN PROBLEMS | | | | |
| 18. EROSION PROBLEMS | | | | |
| 19. INADEQUATE SECURITY | | | | |
| 20. INCOMPATIBLE WASTES | | | | |
| 21. MIDNIGHT DUMPING | | | | |
| 22. OTHER (specify): | | | | |

VII. PERMIT INFORMATION

A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.

- ☐ 1. NPDES PERMIT ☐ 2. SPCC PLAN ☐ 3. STATE PERMIT (specify): _____
☐ 4. AIR PERMITS ☐ 5. LOCAL PERMIT ☐ 6. RCRA TRANSPORTER
☐ 7. RCRA STORER ☐ 8. RCRA TREATER ☐ 9. RCRA DISPOSER
☐ 10. OTHER (specify): NONE HELD - APPLICATION PENDING

B. IN COMPLIANCE?

- ☐ 1. YES ☒ 2. NO ☐ 3. UNKNOWN

4. WITH RESPECT TO (list regulation name & number): _____

VIII. PAST REGULATORY ACTIONS

- ☐ A. NONE ☒ B. YES (summarize below)
- Administrative hearing scheduled for November 14, 1980.
 - Health Dept. has issued order to clean up site.
 - Health Dept. is considering court action pending outcome of hearing.

IX. INSPECTION ACTIVITY (past or on-going)

- ☐ A. NONE ☒ B. YES (complete items 1, 2, 3, & 4 below)

| 1. TYPE OF ACTIVITY | 2. DATE OF PAST ACTION (mo., day, & yr.) | 3. PERFORMED BY: (EPA/State) | 4. DESCRIPTION |
|----------------------|--|------------------------------|--------------------------------------|
| Inspections/Sampling | | State/Health | Determined contaminants are on site. |
| | | | |
| | | | |

X. REMEDIAL ACTIVITY (past or on-going)

- ☒ A. NONE ☐ B. YES (complete items 1, 2, 3, & 4 below)

| 1. TYPE OF ACTIVITY | 2. DATE OF PAST ACTION (mo., day, & yr.) | 3. PERFORMED BY: (EPA/State) | 4. DESCRIPTION |
|---------------------|--|------------------------------|----------------|
| | | | |
| | | | |
| | | | |

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.

010-1111
(1111)

Section 2

FIT III visited N.J. Fireworks Company for purposes of completing a preliminary assessment on October 1, 1980. The FIT III Team consisted of W. Sandvik and A. Stone.

Pertinent contacts with the state include the following:

Pertinent contacts during the site visit include the following:

Mr. Porter Plant Supervisor
N.J. Fireworks Company
Rt. 7 Elkton, MD
301-398-2920

Dave Healy - State has sampled site and surrounding area. Contaminants were found in water filled pit but not off site. Mr. Healy did not specify types of contaminants found because this information may be used as evidence in a court action.

Dave Healy - N.J. Fireworks is attempting to comply with current disposal practices but is resisting efforts to clean up the former waste pit.

Dave Healy - An administrative hearing has been scheduled for November 14, 1980. If the outcome of this hearing is not satisfactory, a court action against N.J. Fireworks would be considered.

Mr. Porter - N.J. Fireworks is attempting to comply with state orders but cannot get clear answers from state on how to comply.

Mr. Porter - N.J. Fireworks fears that the states cleanup procedures may cause them to go bankrupt.

Mr. Porter- No other companies or individuals use the site and proper burning procedures are now followed.

Section 3

RT. 7 CHEMICAL DUMP SITE
TDD F3-8007-30
MD-75

SUMMARY and RECOMMENDATIONS

SUMMARY:

The Route 7 Dump is owned by Mr. A.P. Fabrizi of N.J. Fireworks Company. The site has been in use for many years under several owners for the disposal of fireworks wastes. In the past, these wastes were dumped in an open pit which has filled with water. At present, N.J. Fireworks is seeking a permit to burn wastes at the site. The State Health Department has ordered the company to either cover the pit or remove the wastes from it before it will issue a permit.

Based on the inspection on October 1, 1980, it was determined that:

- (1) A problem does exist at the site.
- (2) The state is aware of this problem and is actively attempting to resolve the problem.
- (3) Some remedial activity has taken place.
- (4) N.J. Fireworks desires to resolve the issue as well, however, there is disagreement between the owners and the state.

RECOMMENDATIONS:

- (1) It is recommended that no further action be taken by EPA pending the outcome of state action.
- (2) EPA should contact Dave Healy of Maryland EHA after November 14, 1980, to determine outcome of administrative hearing to decide if further EPA activity is warranted.

SECRET

100-100000

Section 4

FACT SHEET
RT 7 CHEMICAL DUMP SITE
TDD No. F3-8007-30
MD-75

FACT

SOURCE

Pit containing water and wastes on site.

Previous EPA site visit.

Open burning on site.

Same.

Burning area designed and constructed on site according to State specifications.

Mr. Porter N.J. Fireworks.

Wastes dumped at county landfill after burning.

Same.

Site is contaminated (type of contamination not specified - confidential).

Dave Healy MD-EHA

N.J. Fireworks has resisted state efforts to have site cleaned up.

Same.

Former owners used site for dumping as well.

Mr. Porter & Mr. Healy.

Application for permit is pending proper cleanup.

Mr. Healy.

6/18/2014
1410

Section 5

RT. 7 CHEMICAL DUMP SITE

ORIGINAL
(Red)

TDD-F3-8007-30

MD-75

PHOTO LOG

The following is a log of all photos taken of the Rt. 7 Chemical Dump site during a preliminary assessment on 10/1/80.

Photo #1 Entrance to site, refuse and containers (drums) for burning.

See enclosed map for photo location.



10/1/80 RT. 7 Camp #1
A.J. Fireworks Born Site

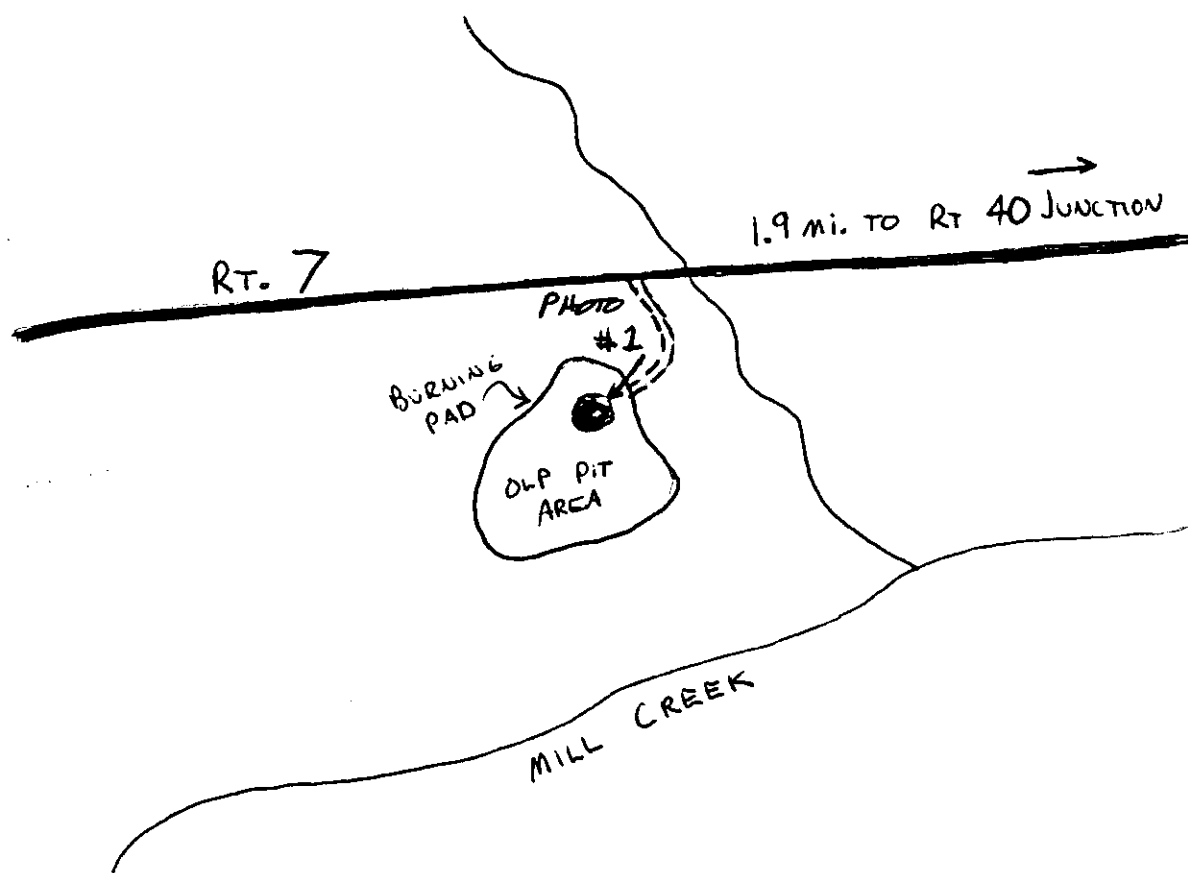
ORIGINAL
(red)



10/1/80 RT. 7 Camp #1
A.J. Fireworks Born Site

ORIGINAL
(2-1)

↑
N



TDD F3-8007-30

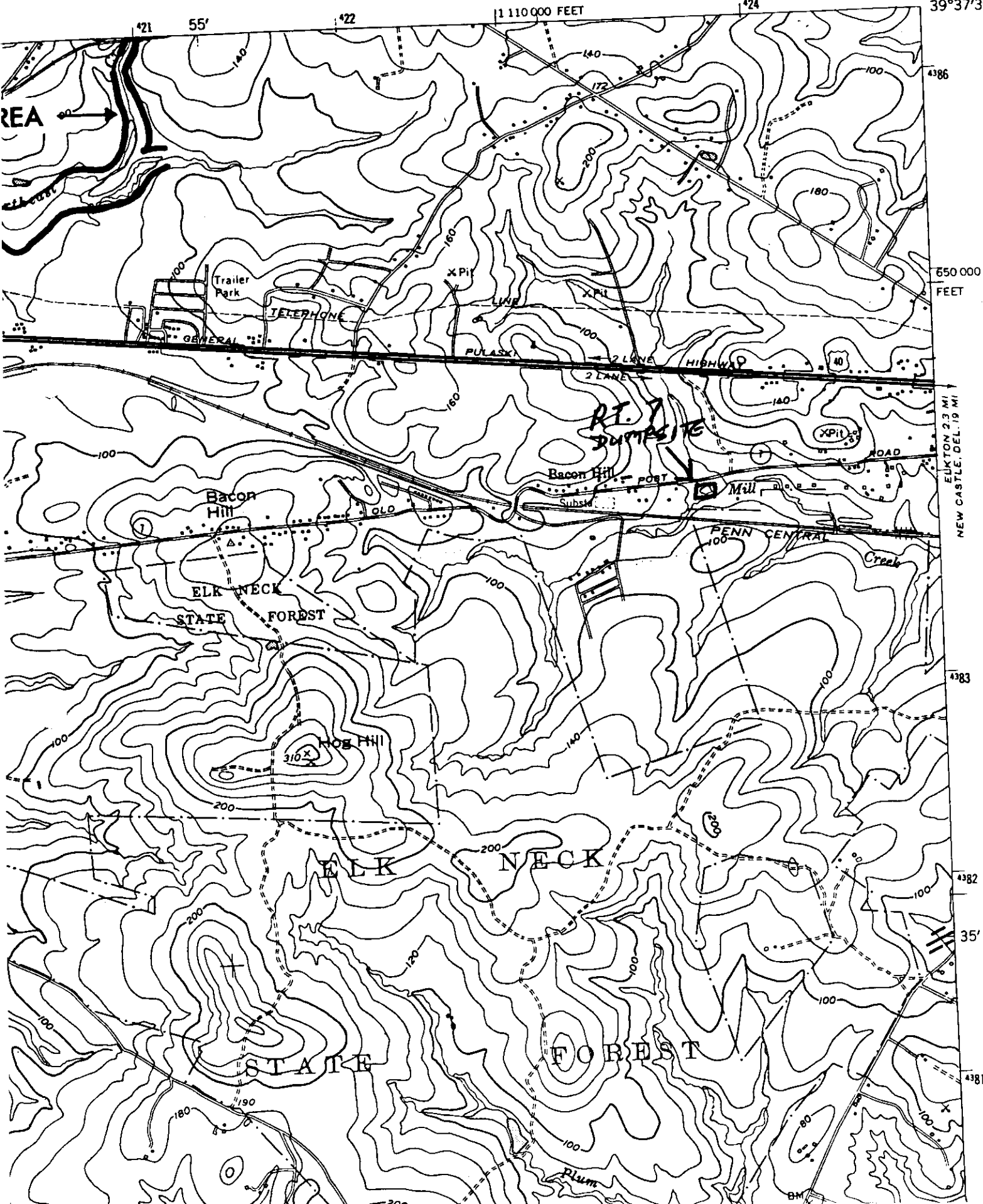
RT. 7 CHEMICAL DUMP SITE

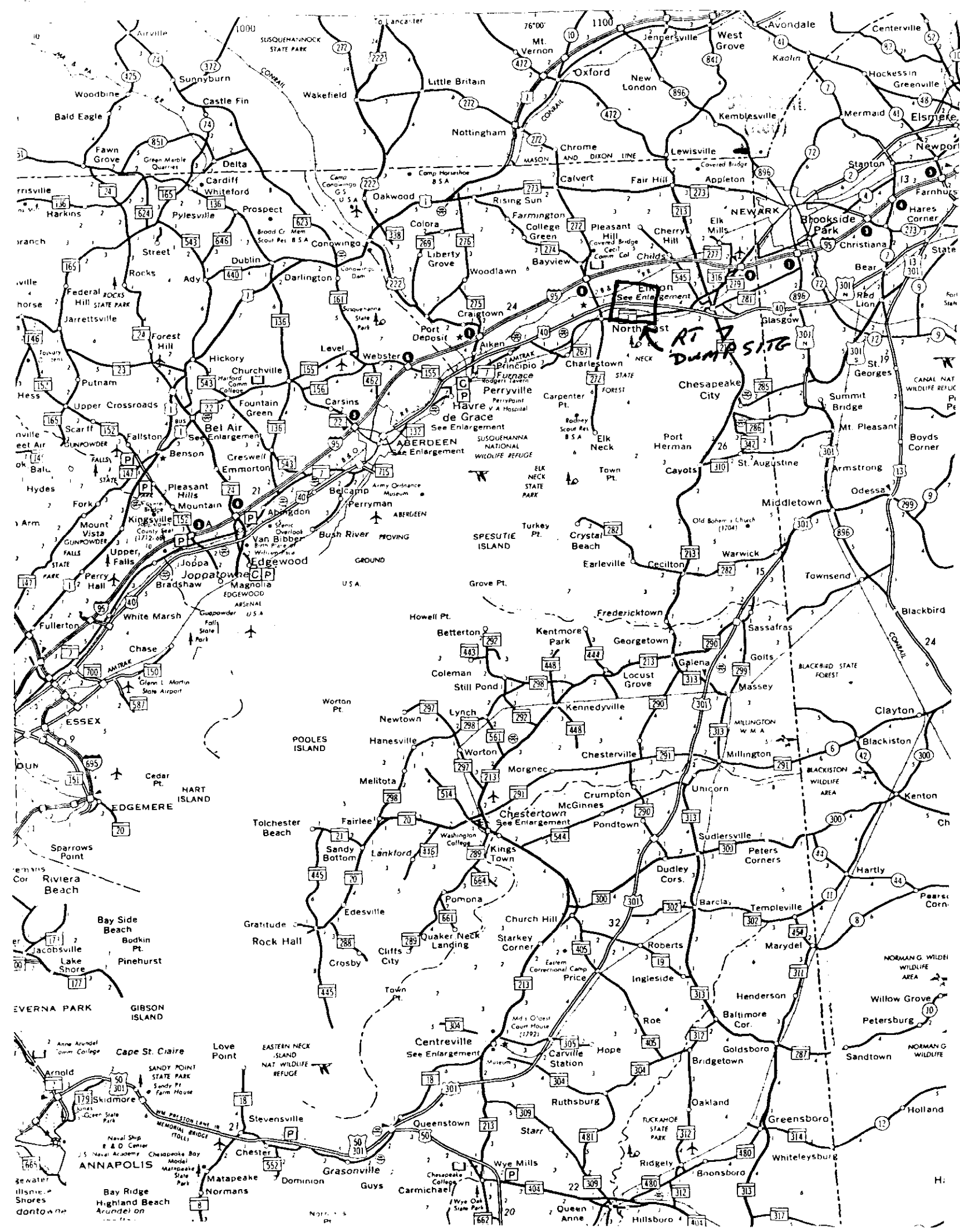
AREAS

NORTH EAST QUADRANGLE
MARYLAND—CECIL COUNTY
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 ELKTON 15' QUADRANGLE

5863 III NE
NEWARK W.

75°52'30"
39°37'30"





ORIGINAL
(1-1)

Section 6

WORK SHEET FOR RATING DISPOSAL SITES

F3-8005-30

Name of Site: Route 7 Dump (active) inactive & abandoned
 Location: 1.9 miles west of Route 40, Elkton, Maryland inactive (CIRCLE ONE)
 Owner/Operator: A.P. Fabrizi/New Jersey Fireworks Company
 Comments: An open area designed for burning fireworks waste, and water filled pit where waste was formerly dumped.

Prepared By: [REDACTED] On October 3, 19 80

| FACTOR | OBSERVATION |
|---|---|
| RECEPTORS | |
| Population within 1000 feet | Approximately 5 (2 homes) |
| Distance to Nearest Drinking Water Well | Unknown |
| Distance to Nearest Off-Site Building | 1/8 mile |
| Land Use/Zoning | Rural |
| Critical Environment | No |
| Use of Site by Residents | No |
| Use of Nearest Buildings | Homes, auto repair shop |
| Presence of Public Water Supplies | Probably wells |
| Presence of Aquifer Recharge Area | Unknown |
| Presence of Transportation Routes | State roads |
| Presence of Important Natural Resources | No |
| Other | --- |
| PATHWAYS | |
| Evidence of Contamination | Trash Visible |
| Type of Contamination | Wastes from fireworks, trash |
| Level of Contamination | Low - confined to ponded water in pit |
| Distance to Nearest Surface Water | 100 feet |
| Depth to Ground Water | 1 1/2 to 4 feet |
| Net Precipitation | 45.35" per year - average |
| Soil Permeability | Low (however, site is on former quarry) |
| Bedrock Permeability | Unknown |
| Depth to Bedrock | Unknown |
| Erosion and Runoff Problems | None |
| Susceptibility to Flooding | None |
| Slope Instability | None |
| Seismic Activity | None |
| Other | --- |

WORK SHEET FOR RATING DISPOSAL SITES
F3-8005-30

5107-10
(6-7)

| FACTOR | OBSERVATION |
|--|--|
| WASTE CHARACTERISTICS | |
| Toxicity | Unknown |
| Persistence | Unknown |
| Radioactivity | Not Applicable |
| Ignitability | No longer |
| Reactivity | Not Applicable |
| Corrosiveness | Not Applicable |
| Solubility | Materials have dissolved in water |
| Volatility | None |
| Physical State | Solids - now dissolved in water |
| Infectiousness | Not Applicable |
| Bioaccumulation Potential | Not Applicable |
| Carcinogenicity, Teratogenicity and Mutagenicity | Not Applicable |
| Other | --- |
| WASTE MANAGEMENT PRACTICES | |
| Site Security | Property fenced and posted |
| Hazardous Waste Quantity | None |
| Total Waste Quantity | Unknown |
| Waste Incompatibility | No |
| Use of Liners | Clay lined pit |
| Use of Leachate Collection Systems | None |
| Use of Gas Collection Systems | Not Applicable |
| Use and Condition of Containers | Not Applicable |
| Lack of Safety Measures | Not Applicable |
| Evidence of Open Burning | Yes - burning area for fireworks waste |
| Dangerous Heat Sources | None |
| Inadequate Waste Records | None |
| Inadequate Cover | Open pit - should be capped or material removed. |
| Other | --- |